Simplicity

Parts Manual

960 Large Frame

Two-Stage Snowthrowers

9HP Snowthrowers

Mfg. No.	Description
1694435	960M, 9HP Snowthrower (CE)
1694439	960E, 9HP Snowthrower

Rev. 11/2003
TP 400-3890-01-LW-S

PRODUCT COMPONENTS **PAGES**

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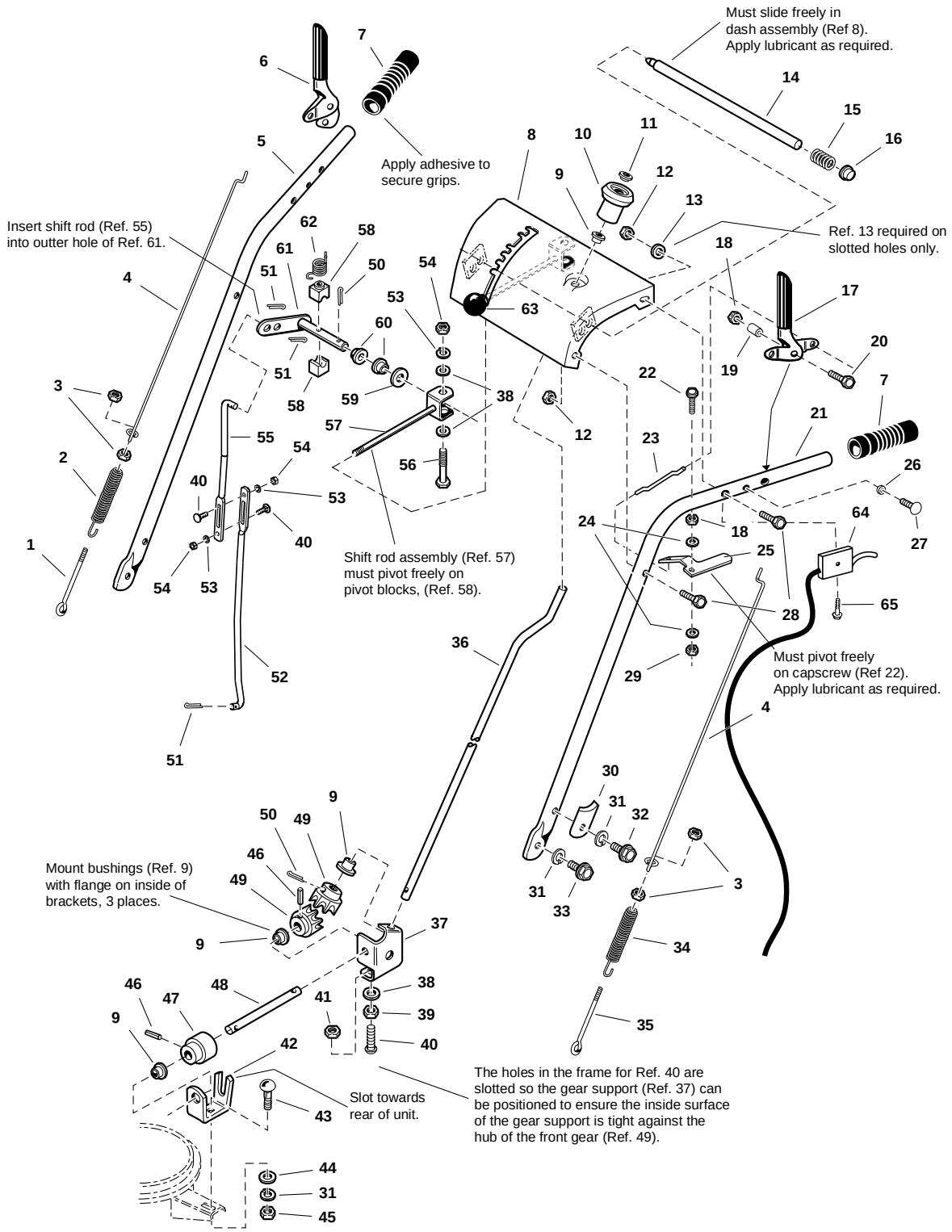
Torque Specification Chart ..... Inside Back Cover

Handles and Controls Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

986366


Must slide freely in dash assembly (Ref 8). Apply lubricant as required.
Apply adhesive to secure grips.
Insert shift rod (Ref. 55) into outter hole of Ref. 61.
Ref. 13 required on slotted holes only.
Shift rod assembly (Ref. 57) must pivot freely on pivot blocks, (Ref. 58).
Must pivot freely on capscrew (Ref 22). Apply lubricant as required.
Mount bushings (Ref. 9) with flange on inside of brackets, 3 places.
Slot towards rear of unit.
The holes in the frame for Ref. 40 are slotted so the gear support (Ref. 37) can be positioned to ensure the inside surface of the gear support is tight against the hub of the front gear (Ref. 49).

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E
1694435 - 960M

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Handles and Controls Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1668525	1	ROD, Auger, 3 7/16 Long 10-24
2	1669323	1	SPRING, Extension, 3 7/16 Long
3	1916621	4	NUT, Hex Machine Screw, 10-24
4	1715659	2	ROD, Clutch/Traction, 23 1/8 Long
5	1725434	1	HANDLE, RH
6	1722638	1	HANDLE, Clutch, RH
7	1725245	2	GRIP, Black Vinyl
8	1722627	1	DASHBOARD & SUPPORT ASSEMBLY
9	1667588	3	BUSHING, 3/8
10	1714084	1	KNOB, Spinner, 2 1/2 Long
11	1960093	1	PUSH NUT, Pal, 3/8
12	1919438	4	NUT, Hex Lock ESNA Light, 5/16-18
13	1919326	2	WASHER, 5/16
14	1722633	1	ROD & SPRING ASSEMBLY, with Pin
15	1722690	1	SPRING, Compression, 1 7/8 Long
16	1960519	1	PUSH NUT, Stud Cap, 1/2
17	1722667	1	HANDLE, Clutch, LH
18	1923358	2	NUT, Hex Centerlock, 1/4-20
19	1715655	2	SPACER
20	1922837	2	CAPSCREW, Hex Head, 1/4-20 x 1 1/2
21	1725433	1	HANDLE, LH
22	1960662	1	CAPSCREW Hex Head, 1/4-20 x 2
23	1722630	1	ROD, 5 3/4 Long
24	1921319	2	WASHER, 1/4
25	1722631	1	LEVER, Pivot
26	1715654	2	SPACER
27	1960671	2	SCREW, Taptite, Pan Head, Torx, 1/4-20 x 3/4
28	1921221	4	CAPSCREW, Hex Head, 5/16 x 1 1/2
29	1920397	2	NUT, Hex Lock ESNA Light, 1/4-20
30	1720452	2	CLAMP, Tube Saddle
31	1917356	3	LOCKWASHER, Spring, 5/16
32	1922127	2	CAPSCREW, Hex Head, 5/16-18 x 1 3/4
33	1921332	2	CAPSCREW, Hex Head, 5/16-18 x 3/4
34	1707452	1	SPRING, Extension, Clutch Rod
35	1668526	1	ROD, Clutch, 6 5/16 Long
36	1715658	1	ROD, Chute Control, 27 Long
37	1718793	1	SUPPORT, Gear
38	1921319	3	WASHER, 1/4
39	1960518	2	PUSH NUT, 1/4
40	1960252	2	CARRIAGE BOLT, 1/4-20 x 5/8 G5

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E
1694435 - 960M

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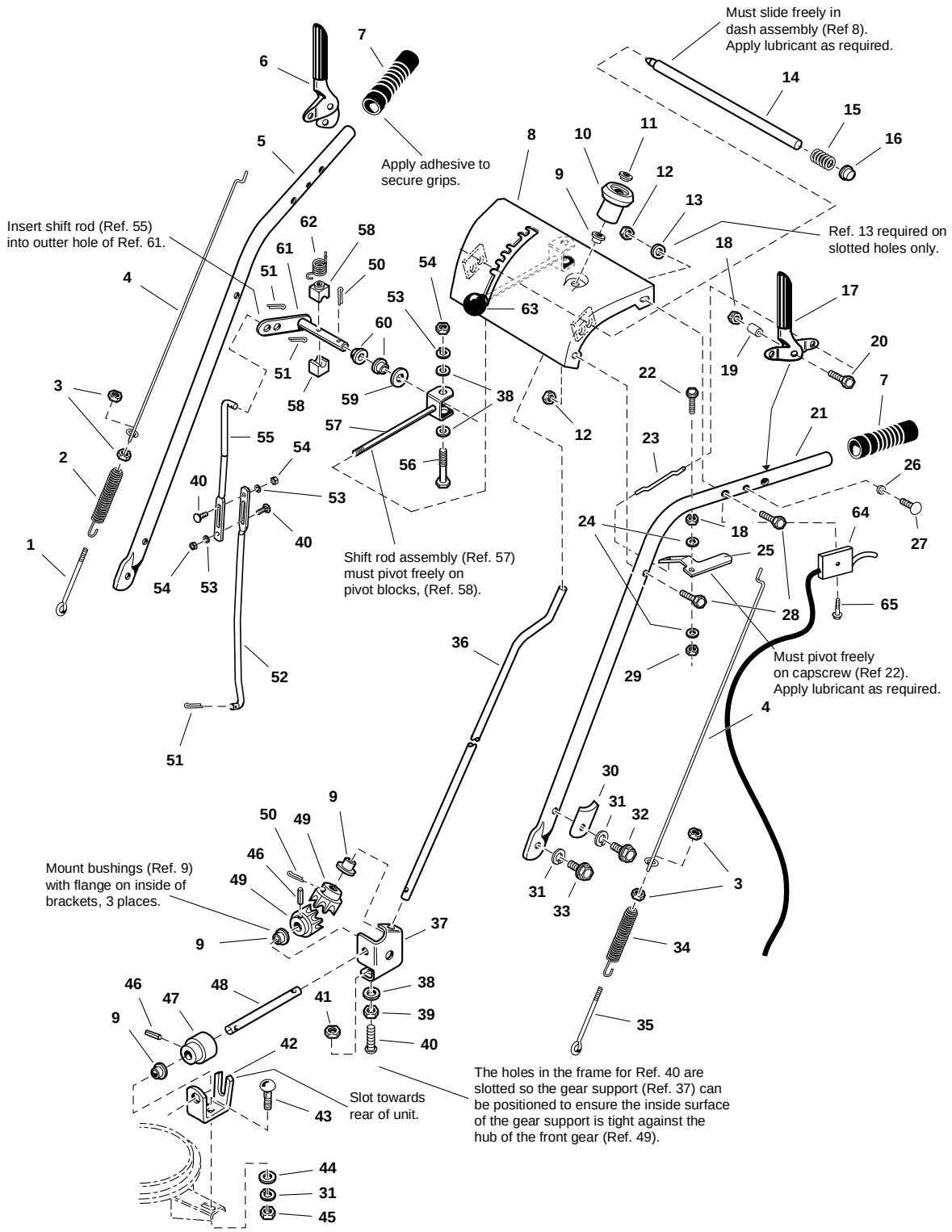
Handles and Controls Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

986366


Must slide freely in dash assembly (Ref 8). Apply lubricant as required.
Apply adhesive to secure grips.
Insert shift rod (Ref. 55) into outter hole of Ref. 61.
Ref. 13 required on slotted holes only.
Shift rod assembly (Ref. 57) must pivot freely on pivot blocks, (Ref. 58).
Must pivot freely on capscrew (Ref 22). Apply lubricant as required.
Mount bushings (Ref. 9) with flange on inside of brackets, 3 places.
Slot towards rear of unit.
The holes in the frame for Ref. 40 are slotted so the gear support (Ref. 37) can be positioned to ensure the inside surface of the gear support is tight against the hub of the front gear (Ref. 49).

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E
1694435 - 960M

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Handles and Controls Group

REF NO.	PART NO.	QTY.	DESCRIPTION
41	1960294	1	NUT, Hex Whiz Lock Flange, Small, 1/4-20
42	1611911	1	SUPPORT, Worm
43	1931333	1	CARRIAGE BOLT, 5/16 x 3/4 G5
44	1919326	1	WASHER, 5/16
45	1917372	1	NUT, Hex, 5/16-18
46	916168	2	PIN, Spring 1/8 x 3/4
47	1668186	1	WORM, Chute, LH
48	1725283	1	ROD, Chute, 18 Long
49	1718593	2	GEAR, Powder Metal
50	1918452	2	PIN, Cotter
51	1918447	3	PIN, Cotter
52	1666255	1	ROD, Shift, 3/8 15 5/16
53	1916964	3	LOCKWASHER, Spring, 1/4
54	1916622	3	NUT, Hex, 1/2-20
55	1720238	1	ROD, Upper Shift, 12 1/2 Long
56	1921159	1	CAPSCREW, Hex Head, 1/4-20 x 2 1/4 G5
57	1668523	1	ROD & CLEVIS ASSEMBLY, Shift
58	1668524	2	BLOCK, Pivot, 3/4 x 3/4
59	1924361	1	WASHER, 1/2
60	1668185	2	BUSHING, 1/2
61	1720240	1	ROD & ARM ASSEMBLY, Pivot
62	1715123	1	SPRING, Torsion, 1/2 Long
63	172038	1	KNOB
64	1718791	1	CABLE & HANDLE ASSEMBLY
65	1725702	1	SCREW, Pan Head, Torx, #10 x 1/2

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E
1694435 - 960M

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Engine and Frame Group - 9HP Electric Start

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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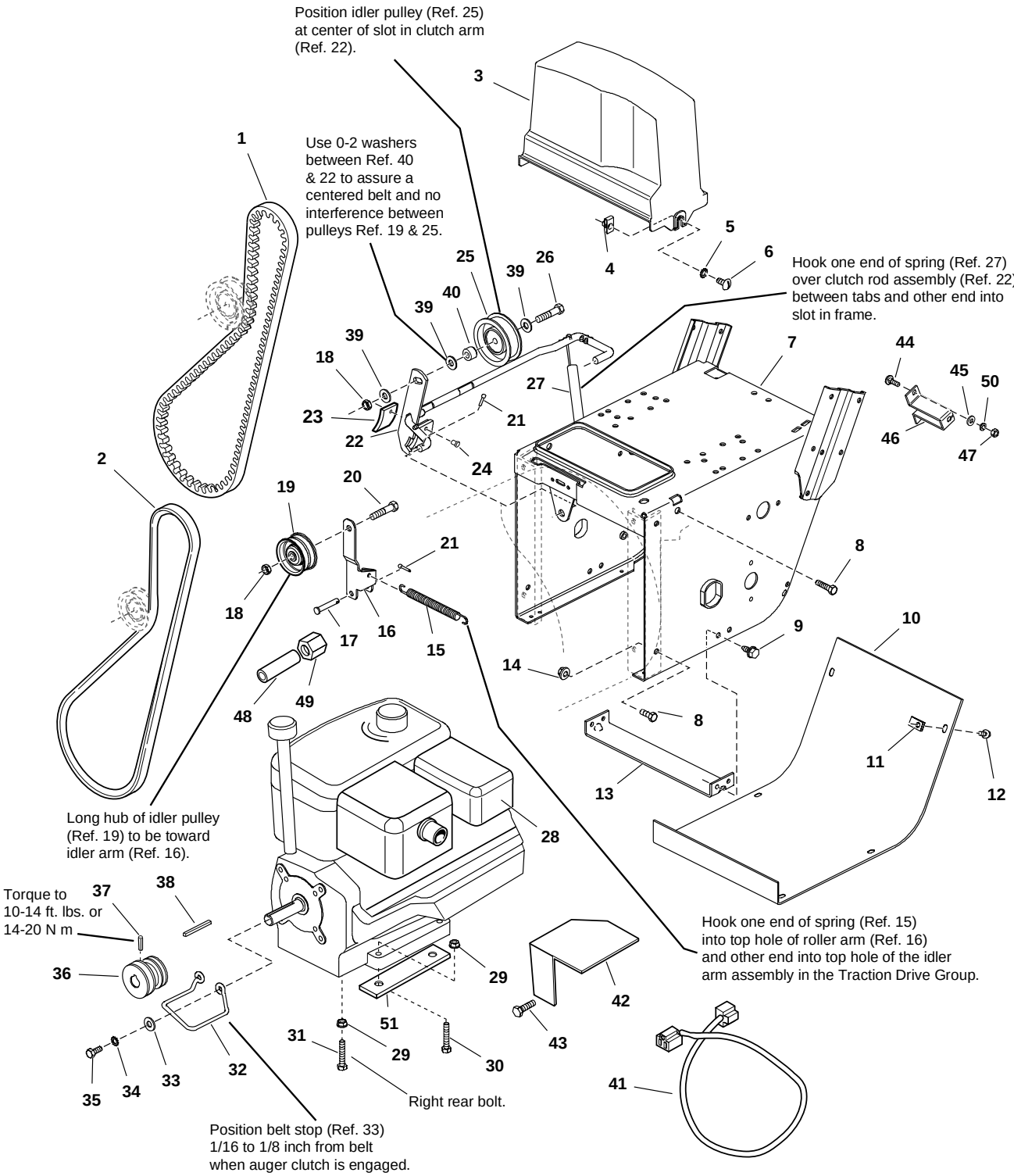
Position idler pulley (Ref. 25) at center of slot in clutch arm (Ref. 22).
Use 0-2 washers between Ref. 40 & 22 to assure a centered belt and no interference between pulleys Ref. 19 & 25.
Hook one end of spring (Ref. 27) over clutch rod assembly (Ref. 22) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 19) to be toward idler arm (Ref. 16).
Torque to 10-14 ft. lbs. or 14-20 N m
Hook one end of spring (Ref. 15) into top hole of roller arm (Ref. 16) and other end into top hole of the idler arm assembly in the Traction Drive Group.
Right rear bolt.
Position belt stop (Ref. 33) 1/16 to 1/8 inch from belt when auger clutch is engaged.

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E

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Engine and Frame Group - 9HP Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1725416	1	BELT, Traction
2	1700415	1	BELT, Drive Auger
3	1725287	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1725438	1	FRAME, Main
8	1930591	4	CAPSCREW, Whizlock, 5/16-18 x 3/4
9	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
10	1666374	1	COVER, Bottom
11	1926018	6	NUT, Speed, 1/4-20
12	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
13	1669198	1	SUPPORT, Tie Bar
14	1927557	4	NUT, Hex, Whizlock, 5/16-18
15	1672735	1	SPRING, Idler
16	1703046	1	ARM, Idler, Traction
17	1665994	1	PIN
18	1928731	2	LOCKNUT, Jam, 3/8-16
19	1668477	1	PULLEY, Idler
20	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
21	1918451	2	PIN, Cotter, 1/8 x 3/4
22	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
23	1669313	1	PAD, Brake
24	925160	2	RIVET, Pop
25	154534	1	PULLEY
26	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
27	1724503	1	SPRING, Extension
28	*	1	ENGINE, Briggs & Stratton, 9 H.P. Electric Start - Engine Model # 20G4140111E1
29	1931277	4	NUT, Hex, 5/16-18
30	1935159	3	CAPSCREW, Hex Head, 5/16-18 x 1 3/4
31	960551	1	CAPSCREW, Hex Head, 5/16-18 x 2-1/2
32	1668174	1	GUIDE, Belt
33	1919326	6	WASHER,11/32 x 3/4
34	1917356	2	LOCKWASHER, 5/16
35	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
36	1666109	1	PULLEY, Traction
37	1930540	1	SETSCREW, 5/8
38	8221042	1	KEY, Parallel, 3/16 x 13/16 x 7/8
39	1924940	3	WASHER, Flat, 13/32
40	157081	1	SPACER

Footnotes

* See your local Briggs & Stratton distributor for Parts & Service.

** Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E

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Engine and Frame Group - 9HP Electric Start

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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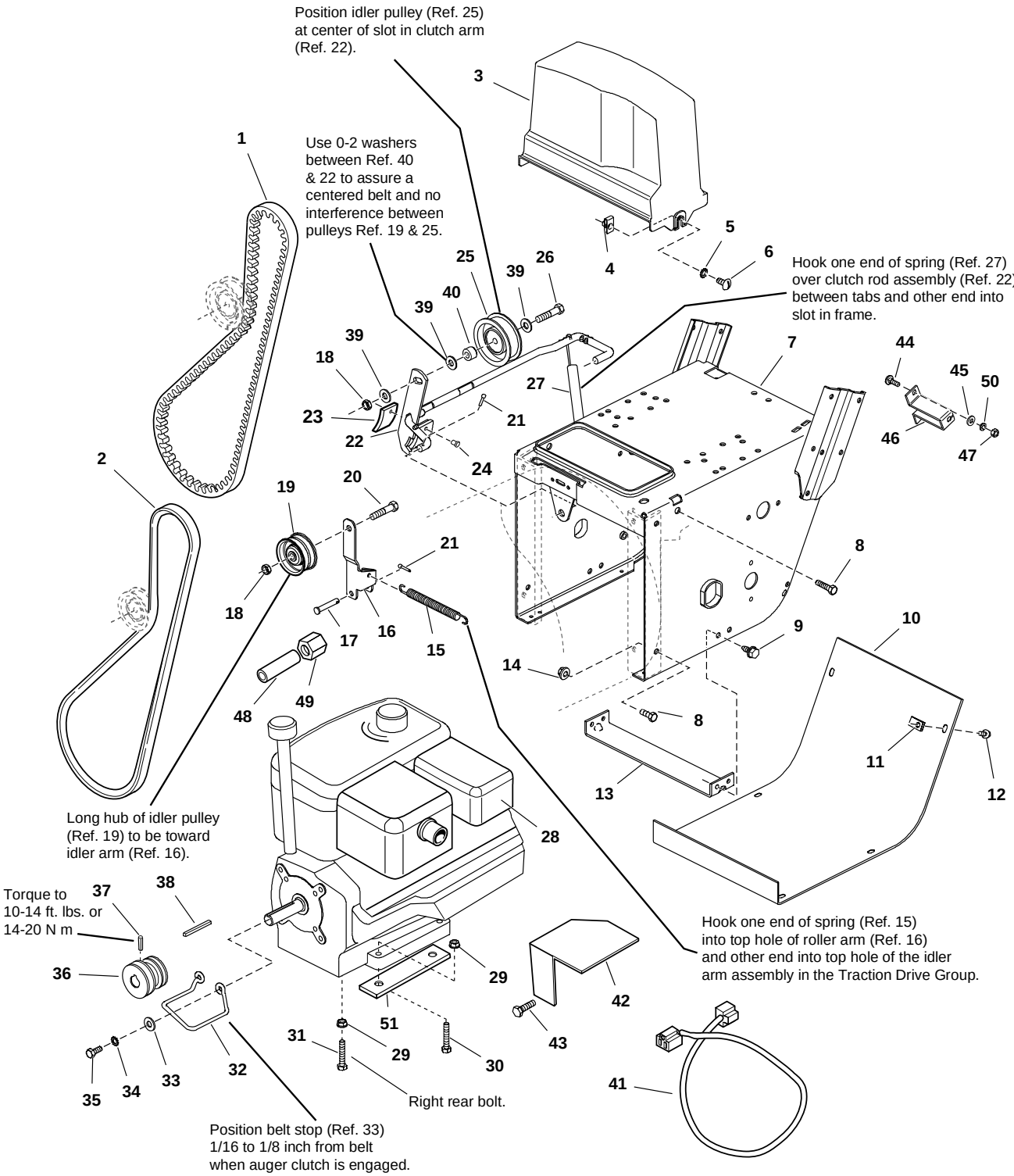
Position idler pulley (Ref. 25) at center of slot in clutch arm (Ref. 22).
Use 0-2 washers between Ref. 40 & 22 to assure a centered belt and no interference between pulleys Ref. 19 & 25.
Hook one end of spring (Ref. 27) over clutch rod assembly (Ref. 22) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 19) to be toward idler arm (Ref. 16).
Torque to 10-14 ft. lbs. or 14-20 N m
Hook one end of spring (Ref. 15) into top hole of roller arm (Ref. 16) and other end into top hole of the idler arm assembly in the Traction Drive Group.
Right rear bolt.
Position belt stop (Ref. 33) 1/16 to 1/8 inch from belt when auger clutch is engaged.

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E

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Engine and Frame Group - 9HP Electric Start

REF NO.	PART NO.	QTY.	DESCRIPTION
41	**	1	CORD, Electrical, 3 Prong (Not a Service Part)
42	1725664	1	GUARD, Muffler
43	1929477	3	CAPSCREW, Hex Washer Head Taptite, #10-24 x 1/2
44	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
45	1921319	2	WASHER, 1/4
46	1720404	1	SUPPORT
47	1916622	2	NUT, Hex, 1/4-20
48	1724455	1	PIPE, Oil Drain,
49	1724456	1	CAP, Hex, 1/4-18 NPT
50	1916964	2	LOCKWASHER, 1/4
51	1725326	4	SUPPORT, Engine Riser
52	1725396	1	DECAL, 9HP Briggs & Stratton, (Not Shown)

Footnotes

* See your local Briggs & Stratton distributor for Parts & Service.

** Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

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Engine and Frame Group - 9HP Manual Start

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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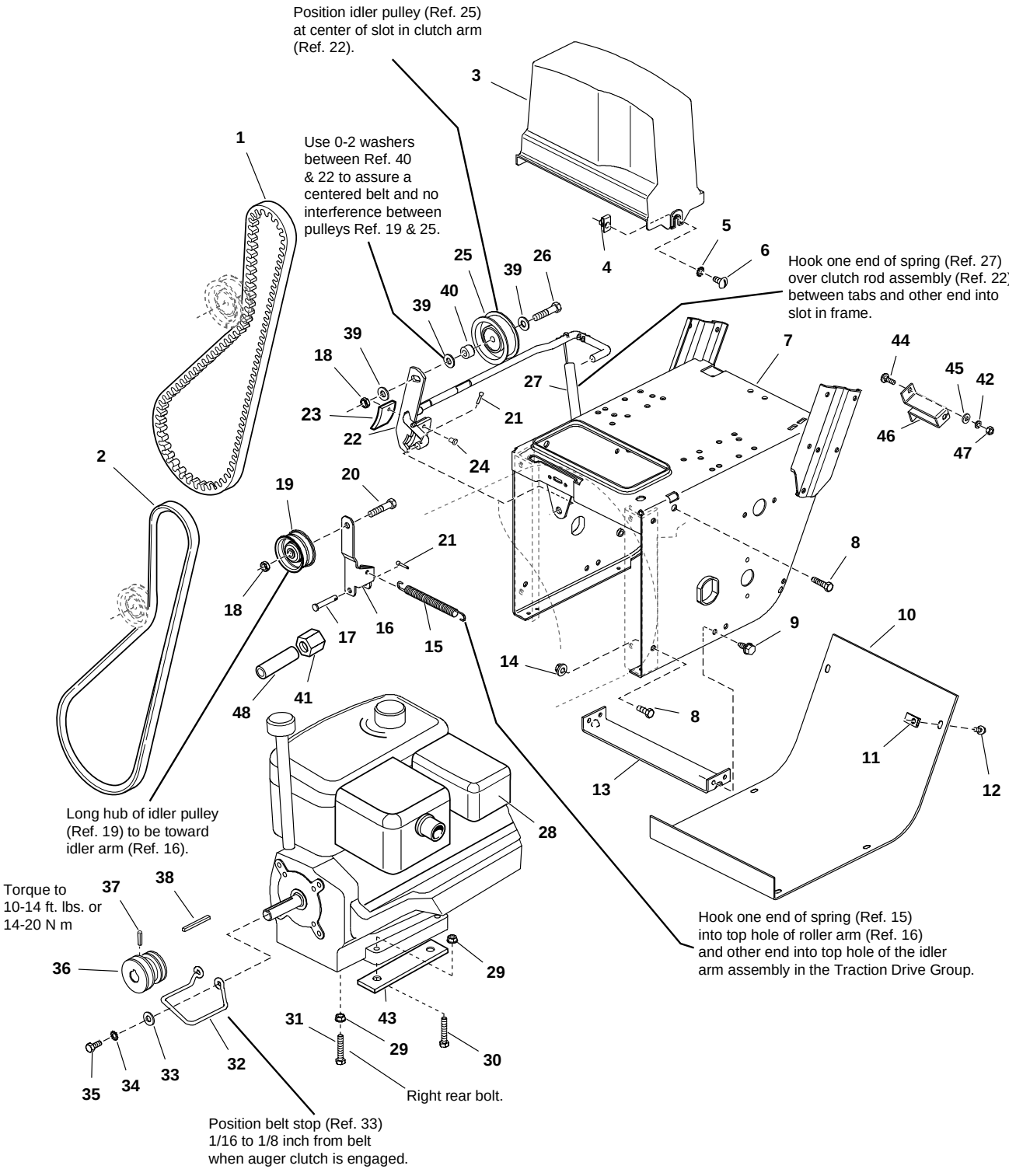
Position idler pulley (Ref. 25) at center of slot in clutch arm (Ref. 22).
Use 0-2 washers between Ref. 40 & 22 to assure a centered belt and no interference between pulleys Ref. 19 & 25.
Hook one end of spring (Ref. 27) over clutch rod assembly (Ref. 22) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 19) to be toward idler arm (Ref. 16).
Torque to 10-14 ft. lbs. or 14-20 N m
Hook one end of spring (Ref. 15) into top hole of roller arm (Ref. 16) and other end into top hole of the idler arm assembly in the Traction Drive Group.
Right rear bolt.
Position belt stop (Ref. 33) 1/16 to 1/8 inch from belt when auger clutch is engaged.

The above parts group applies to the following Mfg. Nos.:
1694435 - 960M

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Engine and Frame Group - 9HP Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1725416	1	BELT, Traction
2	1700415	1	BELT, Drive Auger
3	1725287	1	GUARD, Belt
4	1935255	2	NUT, Speed, 5/16-18
5	920426	2	LOCKWASHER, Ext. Tooth, 5/16
6	1918249	2	SCREW, Truss Head, 5/16-18 x 3/4
7	1725438	1	FRAME, Main
8	1930591	4	CAPSCREW, Whizlock, 5/16-18 x 3/4
9	1664847	4	CAPSCREW, Taptite, 5/16-18 x 3/8
10	1666374	1	COVER, Bottom
11	1926018	6	NUT, Speed, 1/4-20
12	1925003	6	CAPSCREW, Taptite,1/4-20 x 1/2
13	1669198	1	SUPPORT, Tie Bar
14	1927557	4	NUT, Hex, Whizlock, 5/16-18
15	1672735	1	SPRING, Idler
16	1703046	1	ARM, Idler, Traction
17	1665994	1	PIN
18	1928731	2	LOCKNUT, Jam, 3/8-16
19	1668477	1	PULLEY, Idler
20	1960647	1	CAPSCREW, Hex Head, 3/8-16 x 1-1/2
21	1918451	2	PIN, Cotter, 1/8 x 3/4
22	1612200	1	CLUTCH ROD & BRAKE ASSEMBLY
23	1669313	1	PAD, Brake
24	925160	2	RIVET, Pop
25	154534	1	PULLEY
26	1921971	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4
27	1724503	1	SPRING, Extension
28	*	1	ENGINE, Briggs & Stratton, 9 H.P. Manual Start - Engine Model #20G4160110E1
29	1931277	4	NUT, Hex, 5/16-18
30	1935159	3	CAPSCREW, Hex Head, 5/16-18 x 1 3/4
31	960551	1	CAPSCREW, Hex Head, 5/16-18 x 2-1/2
32	1668174	1	GUIDE, Belt
33	1919326	6	WASHER,11/32 x 3/4
34	1917356	2	LOCKWASHER, 5/16
35	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4
36	1666109	1	PULLEY, Traction
37	1930540	1	SETSCREW, 5/16-18 x 5/8
38	8221042	1	KEY, Parallel, 3/16 x 13/16 x 7/8
39	1924940	3	WASHER, Flat,13/32
40	157081	1	SPACER

Footnotes

* See your local Briggs & Stratton distributor for Parts & Service.

The above parts group applies to the following Mfg. Nos.:

1694435 - 960M

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Engine and Frame Group - 9HP Manual Start

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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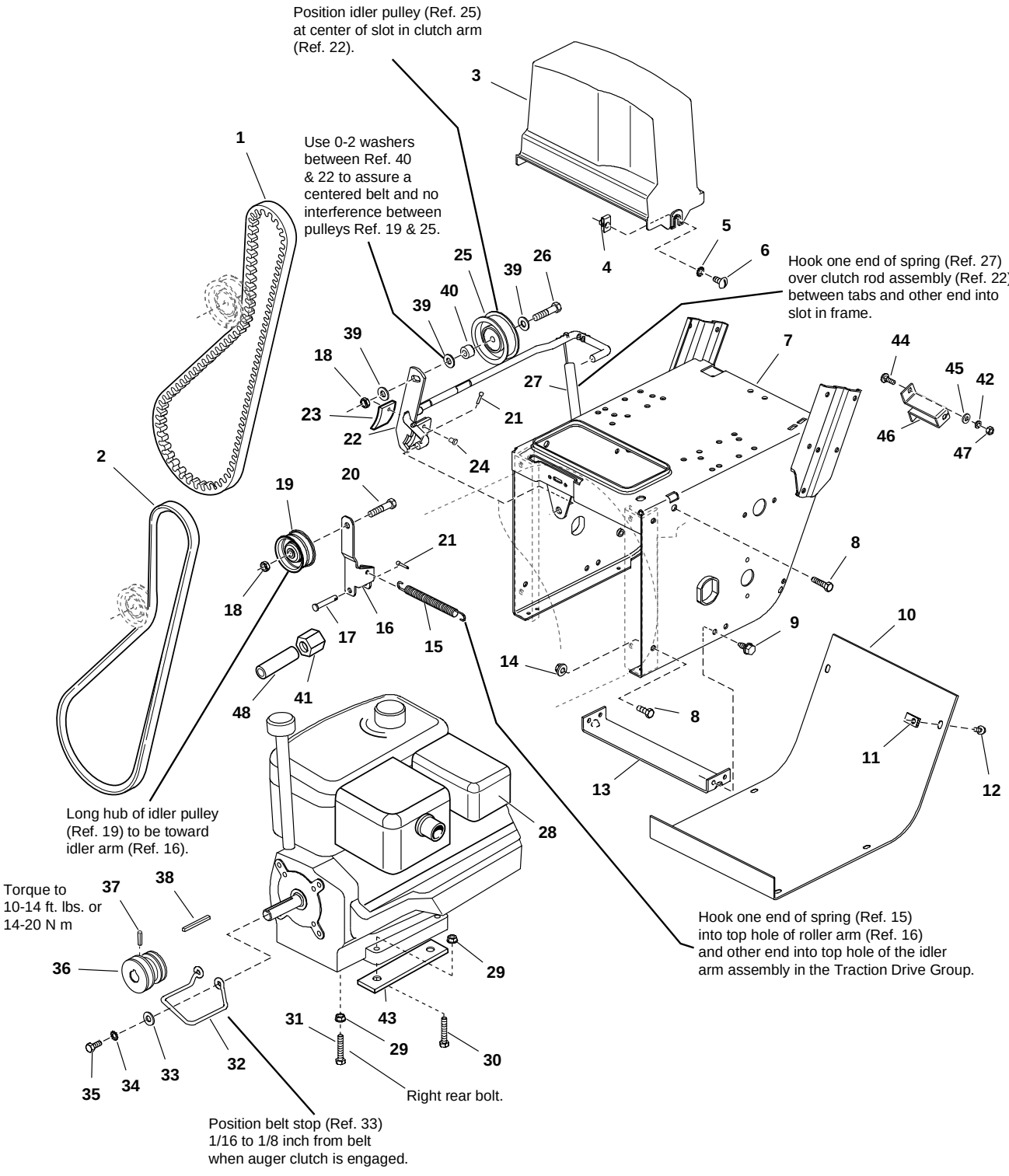
Position idler pulley (Ref. 25) at center of slot in clutch arm (Ref. 22).
Use 0-2 washers between Ref. 40 & 22 to assure a centered belt and no interference between pulleys Ref. 19 & 25.
Hook one end of spring (Ref. 27) over clutch rod assembly (Ref. 22) between tabs and other end into slot in frame.
Long hub of idler pulley (Ref. 19) to be toward idler arm (Ref. 16).
Torque to 10-14 ft. lbs. or 14-20 N m
Hook one end of spring (Ref. 15) into top hole of roller arm (Ref. 16) and other end into top hole of the idler arm assembly in the Traction Drive Group.
Right rear bolt.
Position belt stop (Ref. 33) 1/16 to 1/8 inch from belt when auger clutch is engaged.

The above parts group applies to the following Mfg. Nos.:

1694435 - 960M

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Engine and Frame Group - 9HP Manual Start

REF NO.	PART NO.	QTY.	DESCRIPTION
41	1724456	1	CAP, Hex, 1/4-18NPT
42	1916964	2	LOCKWASHER, 1/4
43	1725326	4	SUPPORT, Engine Riser
44	1931317	2	CARRIAGE BOLT, 1/4-20 x 3/4
45	1921319	2	WASHER, 1/4
46	1720404	1	SUPPORT, Clutch Cable
47	1916622	2	NUT, Hex, 1/4-20
48	1724455	1	PIPE, Oil Drain
49	1725396	1	DECAL, 9HP Briggs & Stratton (Not Shown)

Footnotes

* See your local Briggs & Stratton distributor for Parts & Service.

The above parts group applies to the following Mfg. Nos.:

1694435 - 960M

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Auger and Impeller Group - 24"

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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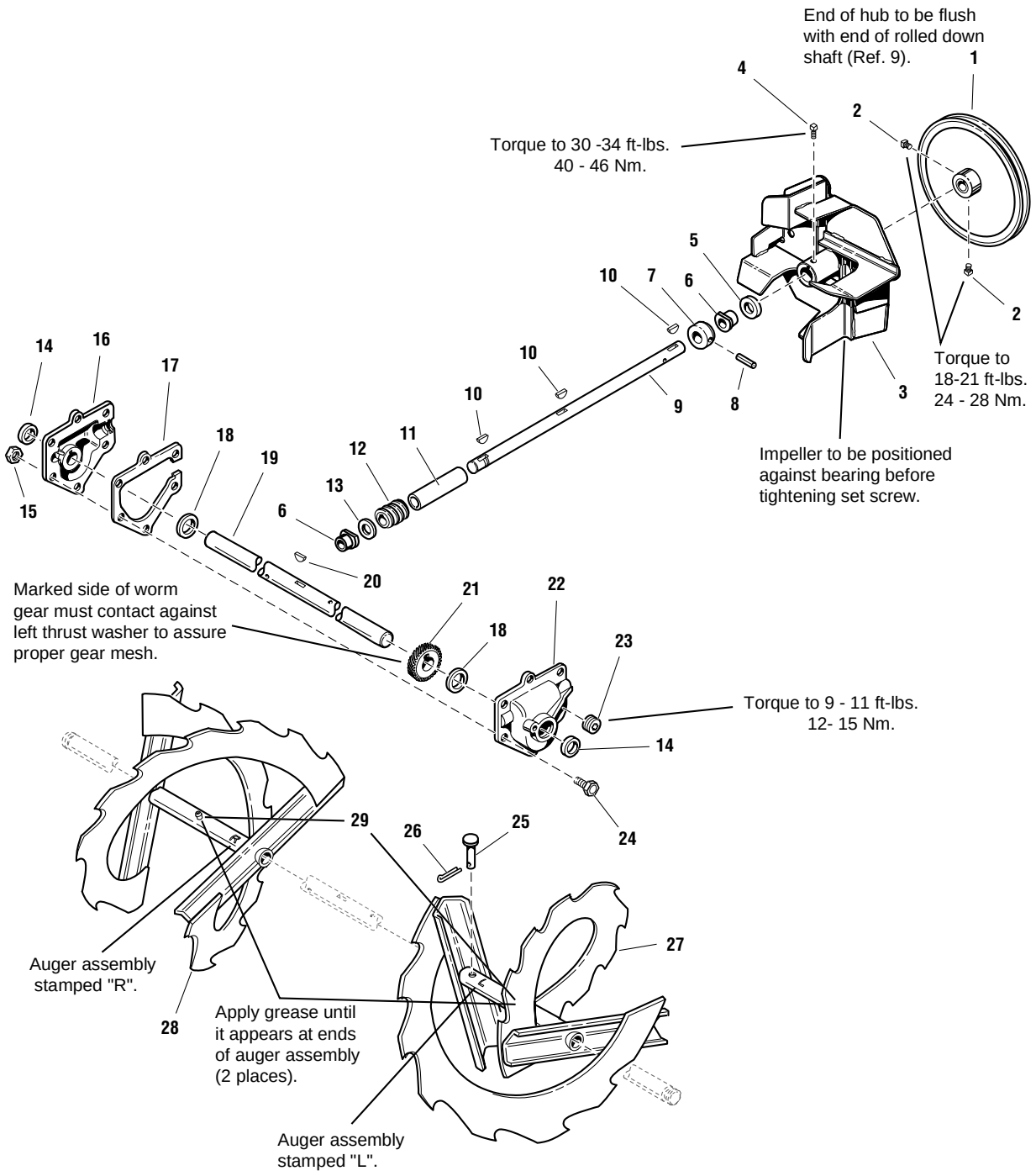

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E
1694435 - 960M

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Auger and Impeller Group - 24"

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1679293	1	PULLEY, Auger Input
2	1928721	2	SETSCREW, Square Head, 5/16-18 x 1/2
3	1612187	1	IMPELLER ASSEMBLY
4	1960474	1	SETSCREW, Square Head, 3/8-16x 1/2
5	1612093	1	SEAL, Oil
6	1612149	2	BUSHING, Flange
7	1612127	1	COLLAR, Thrust
8	936098	1	PIN, Drivelok, 3/16 x 1-1/2
9	1612129	1	SHAFT, Worm
10	918312	3	KEY, Woodruff, 3/16 x 5/8
11	1612111	1	TUBE
12	1612142	1	GEAR, Rolled Worm
13	168111	1	WASHER, Thrust
14	118118	2	SEAL
15	1923358	6	LOCKNUT, Hex, 1/4-20
16	1612137	1	CASE, Gear, RH
17	1612124	1	GASKET
18	118315	2	WASHER, Thrust
19	1612117	1	SHAFT, Auger
20	930246	1	KEY, Woodruff, 1/4 x 3/4
21	1612141	1	GEAR, Worm
22	1612136	1	CASE, Gear, LH
23	1668971	1	PLUG, Pipe, Tapered, 1/8
24	1960346	6	CAPSCREW, Hex Head, 1/4-20 x 7/8
25	1668344	2	PIN, Shear
26	1918447	2	PIN, Cotter, 3/32 x 3/4
27	1718782	1	AUGER ASSEMBLY, LH, 24"
28	1718783	1	AUGER ASSEMBLY, RH, 24"
29	921133	2	FITTING, Lube, 1/4

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E
1694435 - 960M

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Auger Housing and Chute Group - 24"

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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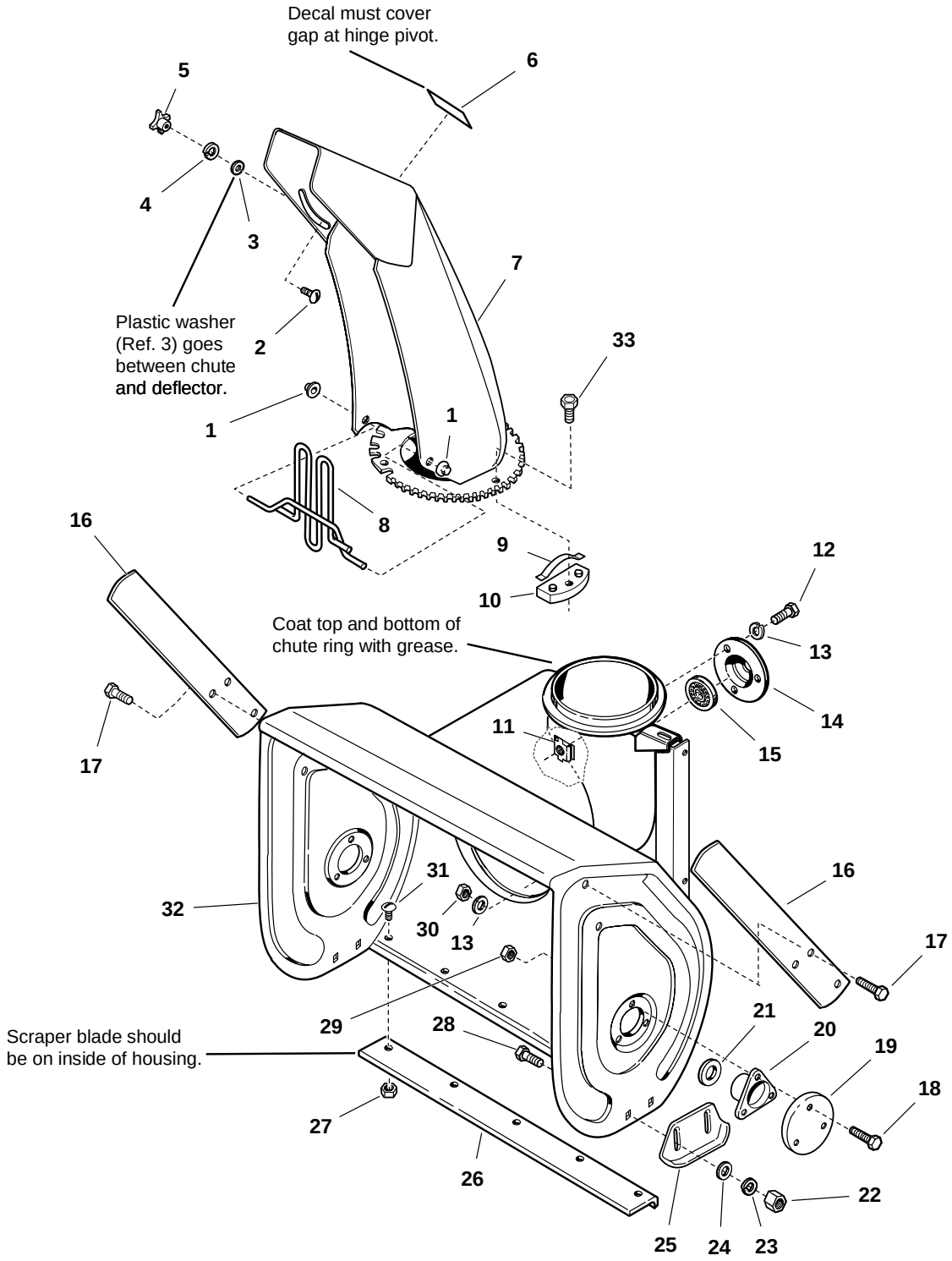
Decal must cover gap at hinge pivot.
Plastic washer (Ref. 3) goes between chute and deflector.
Coat top and bottom of chute ring with grease.
Scraper blade should be on inside of housing.

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E

1694435 - 960M

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Auger Housing and Chute Group - 24"

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1960126	2	PUSH NUT, 1/4
2	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4
3	960210	1	WASHER, Nylon
4	1919326	1	WASHER, Flat, 11/32
5	1670578	1	KNOB, w/5/16-18 Threaded Insert
6	1706085	2	SEAL, Hinge Decal
7	1704161	1	CHUTE & DEFLECTOR ASSEMBLY
8	1612455	1	GUARD & SUPPORT ASSEMBLY, Chute
9	1667865	3	SPRING
10	1666613	3	HOLD DOWN, Chute, Black Nylon
11	1930659	3	NUT, Retainer, 5/16-18
12	1925205	3	CAPSCREW, Hex Head, 5/16-18 x 17/64
13	1917356	3	LOCKWASHER, 5/16
14	1665982	1	RETAINER, Bearing
15	108202	1	BEARING, Ball
16	1715787	2	CUTTER, Drift, (Optional)
17	1921332	4	CAPSCREW, Hex Head, 5/16-18 x 3/4, (Optional)
18	1923325	6	CAPSCREW, Hex Head, 5/16-18 x 7/8
19	1668639	2	BEARING, Cap
20	1665980	2	BEARING, Auger, Flange
21	1663189	2	SPACER
22	1916950	4	NUT, Hex, 3/8-16
23	1916965	4	LOCKWASHER, 3/8
24	1924940	5	WASHER, Flat, 13/32
25	177434	2	SKID
26	1709946	1	BLADE, Scraper, 24"
27	1935048	5	NUT, Hex Flange, 2-Way Lock, 5/16-18
28	1931348	4	CARRIAGE BOLT, 3/8-16 x 3/4
29	1923362	6	NUT, Hex, Center Lock, 5/16-18
30	1917372	4	NUT, Hex, 5/16-18, (Optional)
31	1931332	5	CARRIAGE BOLT, 5/16-18 x 5/8
32	1612184	1	HOUSING ASSEMBLY, Auger, 24"
33	1960001	1	CAPSCREW, Hex Head, Plastite, 10-14 x 5/8

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E
1694435 - 960M

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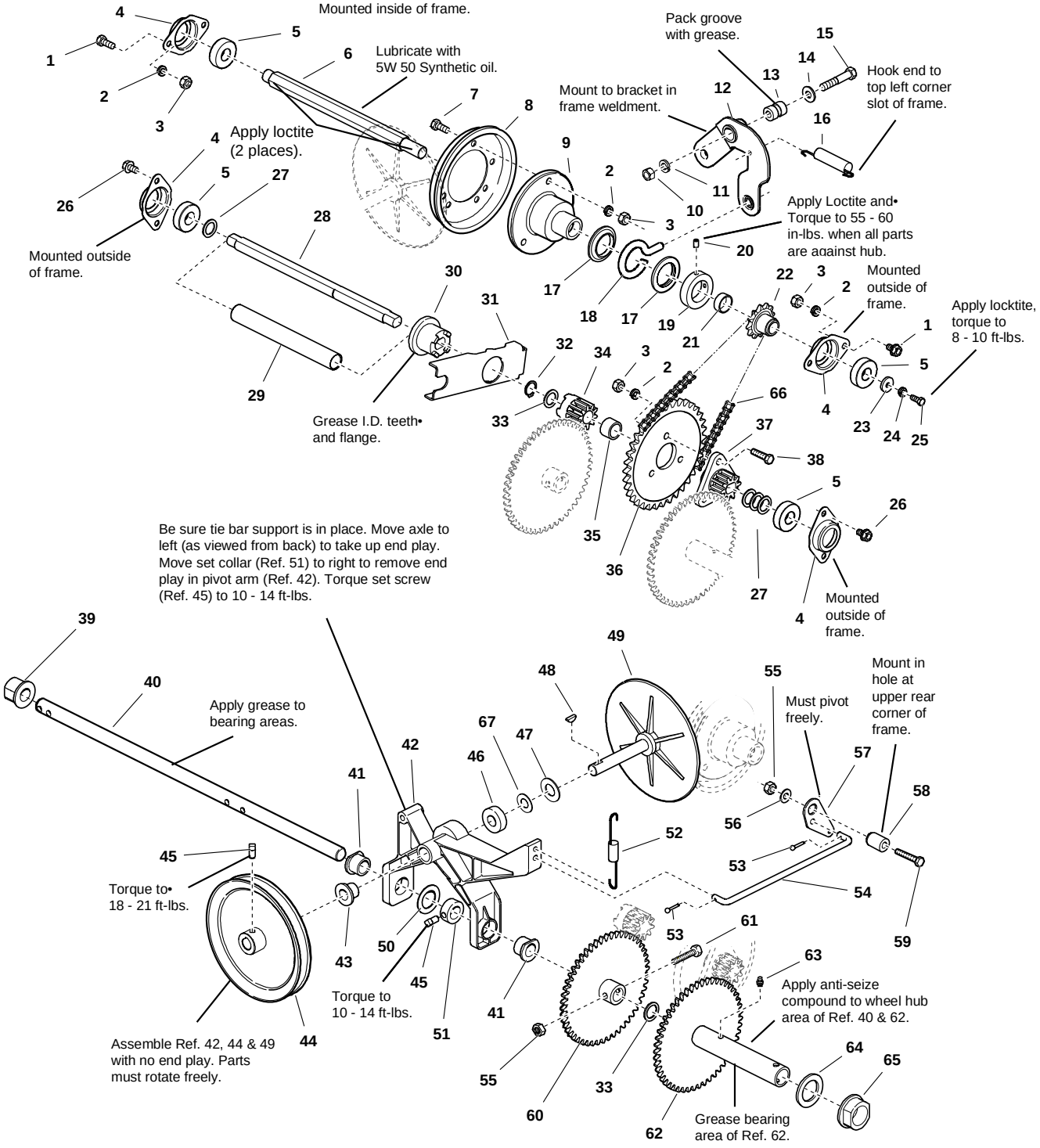
Traction Drive Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

SC985638


Mounted inside of frame.
Lubricate with 5W 50 Synthetic oil.
Pack groove with grease.
Mount to bracket in frame weldment.
Hook end to top left corner slot of frame.
Apply loctite (2 places).
Mounted outside of frame.
Apply Loctite and• Torque to 55 - 60 in-lbs. when all parts are against hub.
Mounted outside of frame.
Apply locktite, torque to 8 - 10 ft-lbs.
Grease I.D. teeth• and flange.
Be sure tie bar support is in place. Move axle to left (as viewed from back) to take up end play. Move set collar (Ref. 51) to right to remove end play in pivot arm (Ref. 42). Torque set screw (Ref. 45) to 10 - 14 ft-lbs.
Mounted outside of frame.
Apply grease to bearing areas.
Must pivot freely.
Mount in hole at upper rear corner of frame.
Torque to• 18 - 21 ft-lbs.
Torque to 10 - 14 ft-lbs.
Apply anti-seize compound to wheel hub area of Ref. 40 & 62.
Assemble Ref. 42, 44 & 49 with no end play. Parts must rotate freely.
Grease bearing area of Ref. 62.

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E

1694435 - 960M

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Traction Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1925205	4	CAPSCREW, Hex Head, 5/16-18 x 5/8
2	1917356	10	LOCKWASHER, 5/16
3	1917372	10	NUT, Hex, 5/16-18
4	1667341	4	RETAINER, Bearing
5	1705897	4	BEARING
6	1667340	1	SHAFT, Hex
7	1921332	3	CAPSCREW, Hex Head, 5/16-18 x 3/4
8	1725428	1	DISC, Friction
9	1665995	1	HUB, Friction Disc
10	1916950	1	NUT, Hex, 3/8-16
11	1916965	1	LOCKWASHER, 3/8
12	1669256	1	ARM ASSEMBLY, Shift w/Bushings
13	1666114	1	BUSHING, Spacer
14	1924940	1	WASHER, Flat, 13/32
15	1923701	1	CAPSCREW, Hex Head, 3/8-16 x 2
16	1668255	1	SPRING
17	1678956	2	COLLAR, Thrust
18	1666207	1	PIN, Slide
19	1667335	1	SET COLLAR
20	1724333	2	SETSCREW, Square Head, 1/4-20 x 1/2
21	1720409	1	SPACER
22	1667331	1	SPROCKET, 10 Tooth
23	1960353	1	WASHER, Flat, 1/4
24	1916964	1	LOCKWASHER, 1/4
25	1921959	1	CAPSCREW, Hex Head, 1 /4-20 x 5/8
26	1924856	4	CAPSCREW, Hex Head Taptite, 5/16-18 x 1/2
27	960164	4	WASHER
28	1718752	1	JACKSHAFT
29	1720298	1	SPRING, Compression
30	1718689	1	CLUTCH, Sliding
31	1720078	1	ARM, Clutch
32	927732	1	RING, Retaining
33	1960114	2	WASHER, 3/4
34	1718688	1	GEAR, 10 Tooth, Stationary, Clutch
35	1679556	1	SPACER
36	1667330	1	SPROCKET, 36 Tooth
37	1718687	1	GEAR, 10 Tooth, Double D
38	1921333	3	CAPSCREW, Hex Head, 5/16-18 x 1
39	1666001	1	BUSHING
40	1720299	1	AXLE

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E
1694435 - 960M

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Traction Drive Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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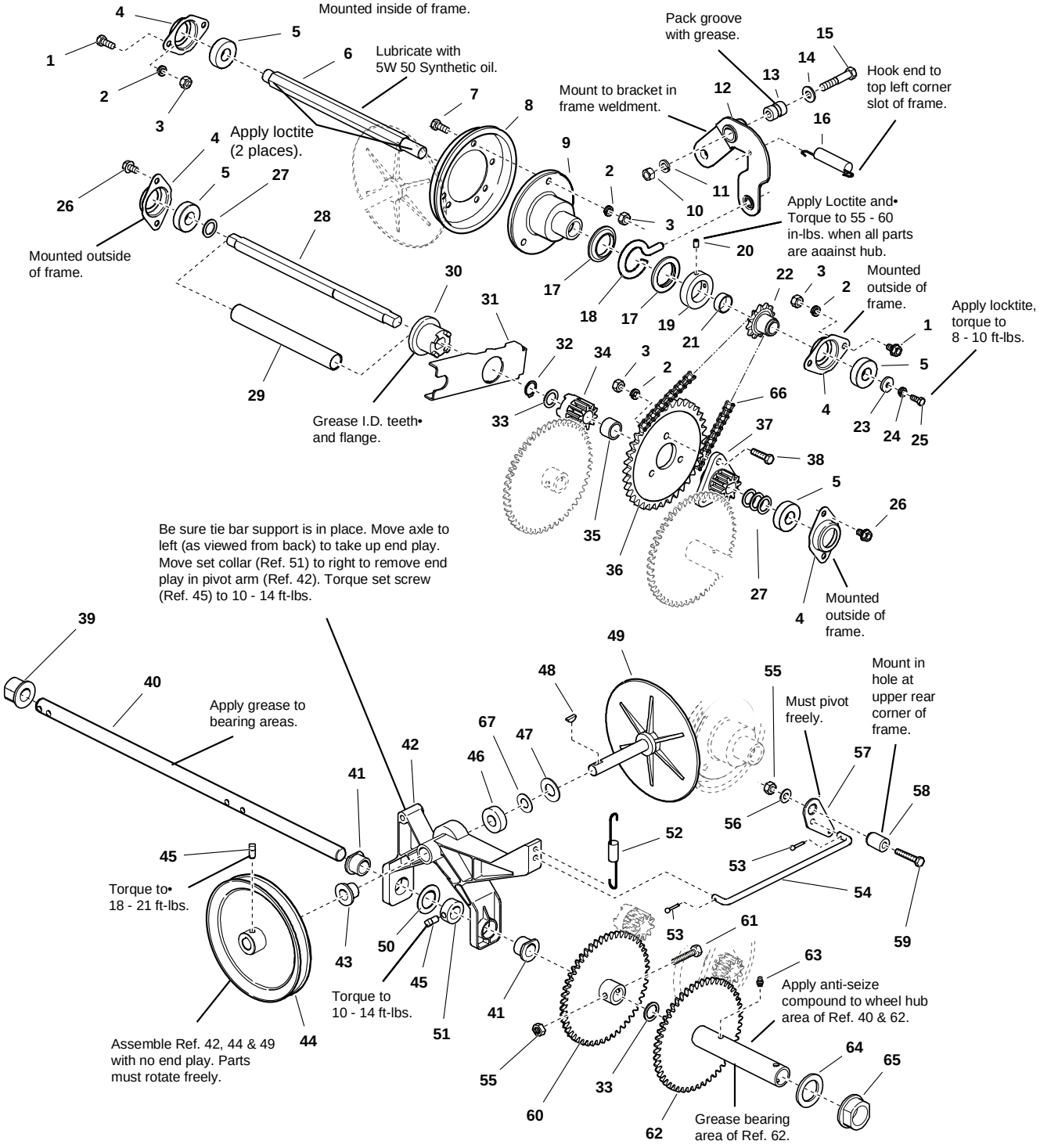
Mounted inside of frame.
Lubricate with 5W 50 Synthetic oil.
Pack groove with grease.
Hook end to top left corner slot of frame.
Mount to bracket in frame weldment.
Apply loctite (2 places).
Mounted outside of frame.
Apply Loctite and• Torque to 55 - 60 in-lbs. when all parts are against hub.
Mounted outside of frame.
Apply locktite, torque to 8 - 10 ft-lbs.
Grease I.D. teeth• and flange.
Be sure tie bar support is in place. Move axle to left (as viewed from back) to take up end play. Move set collar (Ref. 51) to right to remove end play in pivot arm (Ref. 42). Torque set screw (Ref. 45) to 10 - 14 ft-lbs.
Mounted outside of frame.
Apply grease to bearing areas.
Must pivot freely.
Mount in hole at upper rear corner of frame.
Torque to• 18 - 21 ft-lbs.
Torque to 10 - 14 ft-lbs.
Assemble Ref. 42, 44 & 49 with no end play. Parts must rotate freely.
Apply anti-seize compound to wheel hub area of Ref. 40 & 62.
Grease bearing area of Ref. 62.

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E

1694435 - 960M

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Traction Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
41	1666425	2	BUSHING
42	1670849	1	ARM ASSEMBLY, Pivot w/Bushings (Includes Reference Numbers 41, 43 & 46)
43	1666855	1	BUSHING
44	1672595	1	PULLEY, Traction
45	1928721	2	SETSCREW, Square Head, 5/16-18 x 1/2
46	1665521	1	BEARING
47	1960114	1	WASHER
48	918312	1	KEY, Woodruff, 3/16 x 5/8
49	1719879	1	DRIVE DISC W/SPINDLE
50	1919394	1	WASHER
51	8021010	1	SET COLLAR
52	1725666	1	SPRING
53	1918451	2	PIN, Cotter, 1/8 x 3/4
54	1666105	1	ROD, Pivot
55	1919438	3	NUT, Hex, Lock, 5/16-18
56	1919326	1	WASHER, Flat, 11/32
57	1700473	1	BELLCRANK
58	1666106	1	BUSHING, Pivot
59	1922127	1	CAPSCREW, Hex Head, 5/16-18 x 1 -3/4
60	1720300	1	GEAR & HUB ASSEMBLY, 50 Tooth
61	1930570	2	CAPSCREW, Hex Head, 5/16-18 x 1-1/2
62	1720716	1	GEAR & HUB ASSEMBLY, w/Bushing, 50 Tooth
63	921133	1	FITTING, Lube
64	960169	1	WASHER
65	1720305	1	BUSHING
66	1666980	1	CHAIN, Drive, #40
67	1924366	1	WASHER

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E
1694435 - 960M

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NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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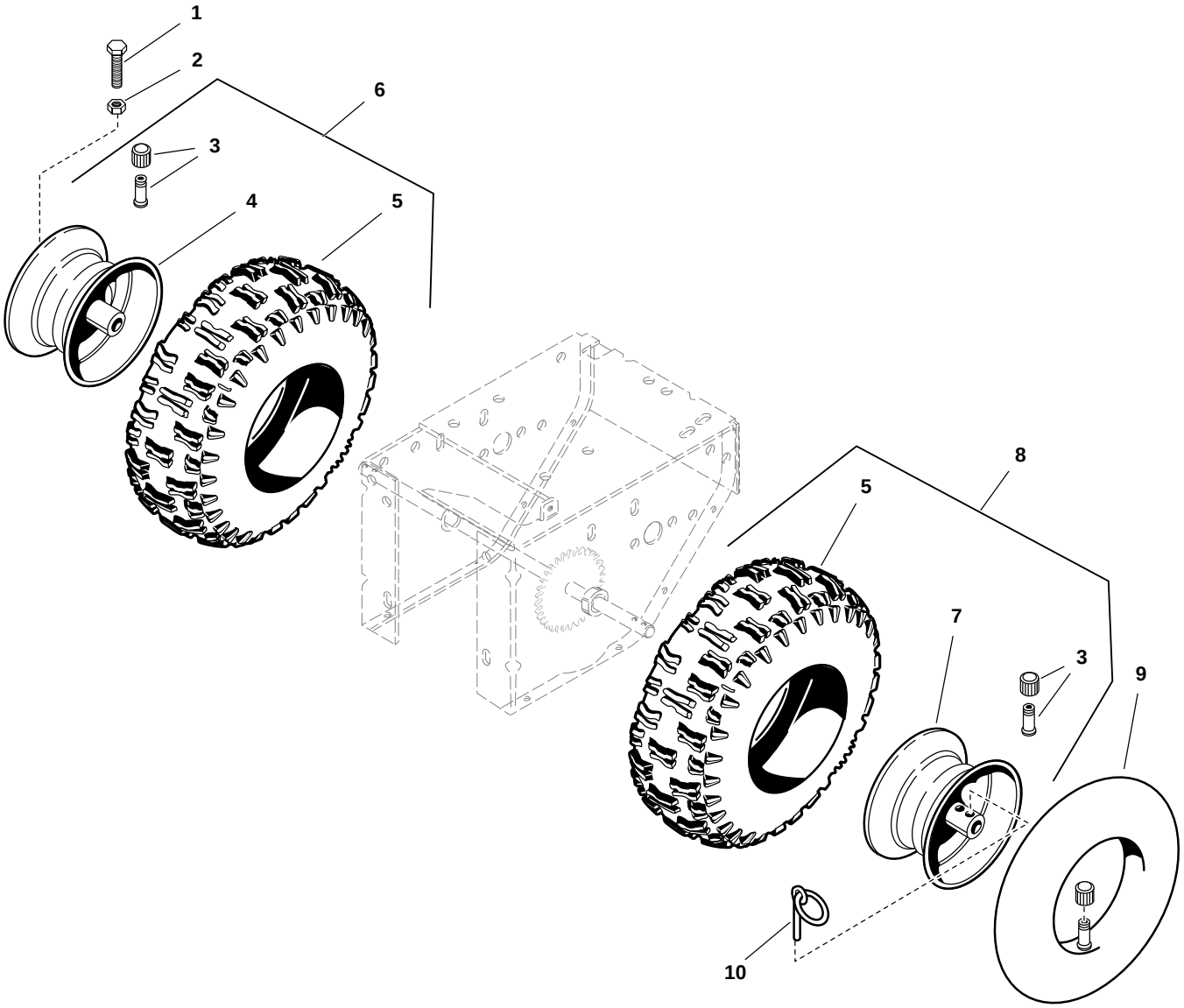

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E
1694435 - 960M

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Wheels & Tires Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1921978	1	CAPSCREW, Hex Head, 5/16-18 x 2
2	1919438	1	NUT, Hex Lock ESNA Light, 5/16-18
3	172353	2	VALVE STEM & CAP
4	1714242	1	HUB, Wheel, RH
5	1612000	2	TIRE, 4.80-4.00-8
6	1714235	1	WHEEL & TIRE ASSEMBLY, RH (Includes Reference Numbers 3, 4 & 5)
7	1720307	1	HUB, Wheel, LH
8	1720306	1	WHEEL & TIRE ASSEMBLY, LH (Includes Reference Numbers 3, 5 & 7)
9	153038	2	TUBE, Tire
10	1666969	1	KLIK-PIN

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694439 - 960E
1694435 - 960M

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NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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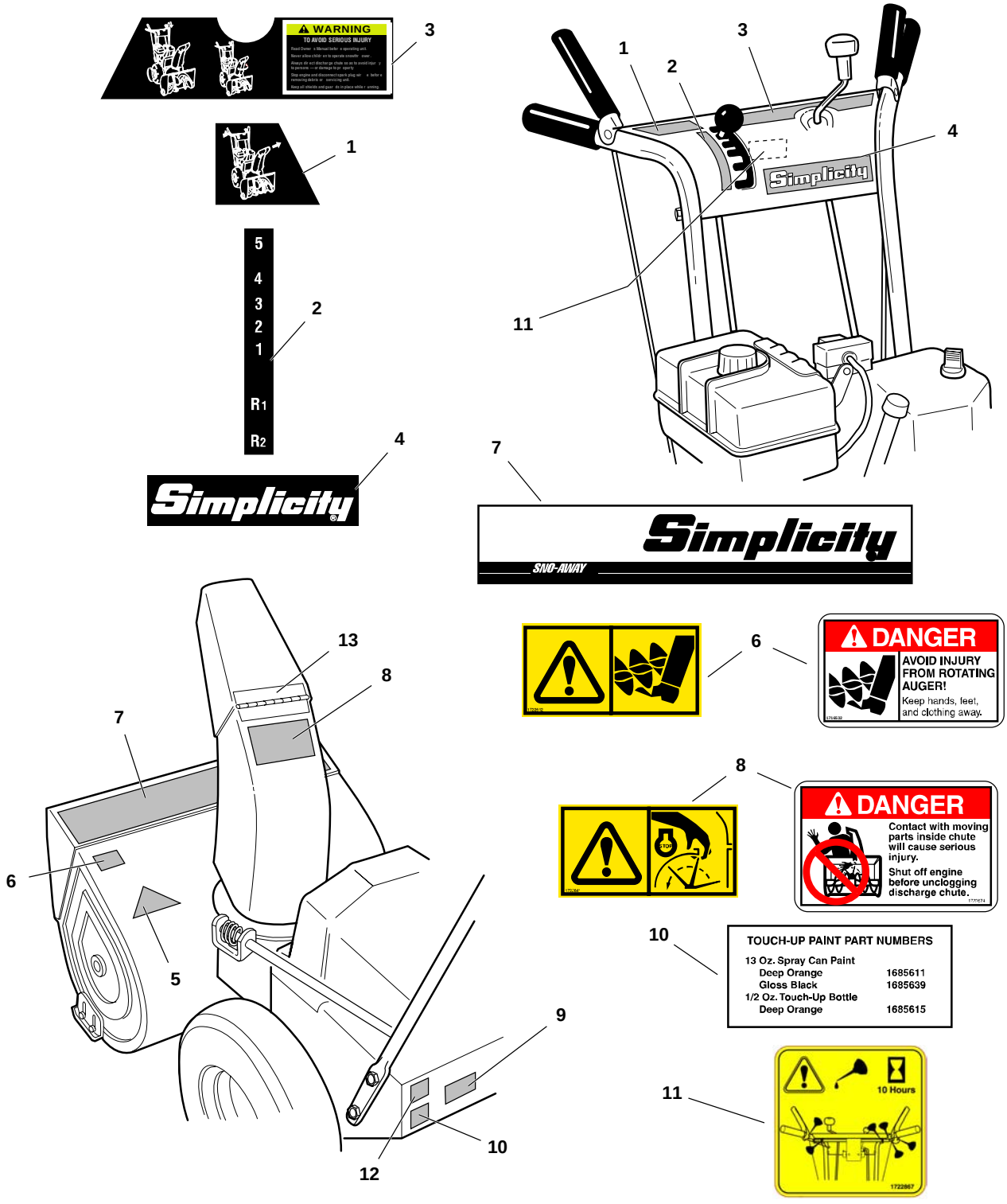

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E
1694435 - 960M

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Decals Group - 960

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1722640	1	DECAL, Auger Control
2	1715557	1	DECAL, Speed Selector
3	1722639	1	DECAL, Warning / Main Dash Panel (Export)
3	1722643	1	DECAL, Warning / Main Dash Panel
4	1715558	1	DECAL, Simplicity Logo
5	*	1	DECAL, OPEI (Not Serviced)
6	1716532	1	DECAL, Auger Danger
6	1722642	1	DECAL, Auger Danger (Export)
7	1725375	1	DECAL, Stripe, 960
8	1722641	1	DECAL, Discharge Chute Danger (Export)
8	1722674	1	DECAL, Discharge Chute Danger
9	*	1	I.D. Tag (Not Serviced)
10	1720454	1	DECAL, Touch-up Paint
11	1722867	1	DECAL, Handle Lubrication
12	*	1	DECAL, Patent, Not Shown, (Not a Service Part)
13	1706085	2	DECAL, Hinge, Orange

Footnotes

* Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

1694439 - 960E
1694435 - 960M

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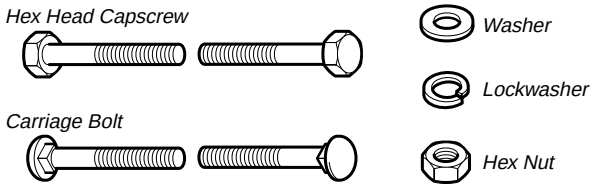
Hardware Identification & Torque Specifications

Common Hardware Types

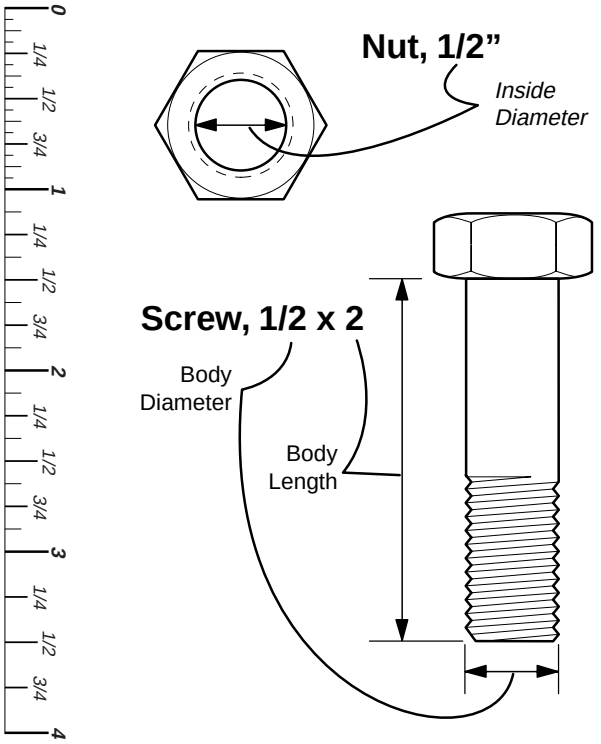


Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represent the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.



Torque Specification Chart

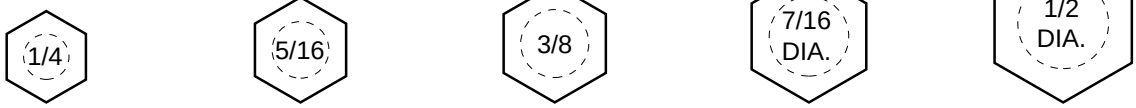
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	**in/lbs** **ft/lbs**	Nm.
8-32	*19*	2.1	*30*	3.4	*41*	4.6
8-36	*20*	2.3	*31*	3.5	*43*	4.9
10-24	*27*	3.1	*43*	4.9	*60*	6.8
10-32	*31*	3.5	*49*	5.5	*68*	7.7
1/4-20	*66*	7.6	**8**	10.9	**12**	16.3
1/4-28	*76*	8.6	**10**	13.6	**14**	19.0
5/16-18	**11**	15.0	**17**	23.1	**25**	34.0
5/16-24	**12**	16.3	**19**	25.8	**27**	34.0
3/8-16	**20**	27.2	**30**	40.8	**45**	61.2
3/8-24	**23**	31.3	**35**	47.6	**50**	68.0
7/16-14	**30**	40.8	**50**	68.0	**70**	95.2
7/16-20	**35**	47.6	**55**	74.8	**80**	108.8
1/2-13	**50**	68.0	**75**	102.0	**110**	149.6
1/2-20	**55**	74.8	**90**	122.4	**120**	163.2
9/16-12	**65**	88.4	**110**	149.6	**150**	204.0
9/16-18	**75**	102.0	**120**	163.2	**170**	231.2
5/8-11	**90**	122.4	**150**	204.0	**220**	299.2
5/8-18	**100**	136	**180**	244.8	**240**	326.4
3/4-10	**160**	217.6	**260**	353.6	**386**	525.0
3/4-16	**180**	244.8	**300**	408.0	**420**	571.2
7/8-9	**140**	190.4	**400**	544.0	**600**	816.0
7/8-14	**155**	210.8	**440**	598.4	**660**	897.6
1-8	**220**	299.2	**580**	788.8	**900**	1,244.0
1-12	**240**	326.4	**640**	870.4	**1,000**	1,360.0

NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Wrench & Fastener Size Guide



1/4" Bolt or Nut
Wrench—7/16"

5/16" Bolt or Nut
Wrench—1/2"

3/8" Bolt or Nut
Wrench—9/16"

7/16" Bolt or Nut
Wrench (Bolt)—5/8"
Wrench (Nut)—11/16"

1/2" Bolt or Nut
Wrench—3/4"

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